

Amendments to the Claims

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims

1-23. (Canceled)

24. (Currently Amended) An antibody that specifically binds a peptide ~~that consists~~
consisting of one of the following amino acid sequences: sequence

~~VPGGSSCGTQARQGDPSTGPI (SEQ ID NO:1);~~

~~RDKIPEEDRRKMQDKC (SEQ ID NO:4);~~

~~AHVFHVKGSLQEESLRDKIPEEDRRKMQ (SEQ ID NO:6);~~

~~MQAPRELAVGID (SEQ ID NO:9);~~

~~AHVFHVKGSLQEES (SEQ ID NO:7);~~

~~CGTQARQGDPSTGPI (SEQ ID NO:2)[[;]]~~

~~CGTQARQGDPST (SEQ ID NO:3);~~

~~RDKIPEEDRRKMQ (SEQ ID NO:5); or~~

~~GSLQEESLRDKIPEE (SEQ ID NO:10).~~

25. (Original) The antibody of claim 24, wherein the antibody is a monoclonal antibody.

26. (Currently Amended) A kit ~~for analyzing the expression of Hsp70B', the kit~~
comprising ~~[[an]]~~ the antibody of claim 24 ~~that specifically binds an Hsp70B' peptide consisting~~
~~of five or more consecutive amino acid residues within one of the following amino acid~~
~~sequences:~~

~~VPGGSSCGTQARQGDPSTGPI (SEQ ID NO:1);~~

~~RDKIPEEDRRKMQDKC (SEQ ID NO:4);~~

~~AHVFHVKGSLQEESLRDKIPEEDRRKMQ (SEQ ID NO:6); or~~

~~MQAPRELAVGID (SEQ ID NO:9).~~

27. (Original) The kit of claim 26, further comprising an Hsp70B' protein or an Hsp70B' peptide.

28. (Currently Amended) A method of obtaining ~~[[an]]~~ the antibody ~~that specifically binds Hsp70B'~~ of claim 24, the method comprising administering to an animal a peptide consisting of ~~five or more consecutive amino acid residues within one of the following amino acid sequences:~~

~~VPGGSSCGTQARQGDGPSTGPI (SEQ ID NO:1);~~

~~RDKIPEEDRRKMQDKC (SEQ ID NO:4);~~

~~AHV FHV KGS LQEESLRDKIPEEDRRKMQ (SEQ ID NO:6); or~~

~~MQAPRELAVGID (SEQ ID NO:8)~~

the amino acid sequence CGTQARQGDGPSTGPI (SEQ ID NO:2).

29. (Canceled)

30. (Currently Amended) ~~[[The]]~~ A method of ~~claim 29, wherein the peptide further comprises~~ obtaining the antibody of claim 24, the method comprising administering to an animal a peptide consisting of the amino acid sequence CGTQARQGDGPSTGPI (SEQ ID NO:2) and a carrier that enhances the immunogenicity of the peptide and, optionally, a linker between the peptide and the carrier.

31. (Original) The method of claim 28, wherein the antibody is a monoclonal antibody.

32. (Currently Amended) A method of determining whether a cell has been exposed to a stressful environment or a stressful substance, the method comprising performing an immunoassay in which proteins in or on the cell or proteins extracted from the cell are exposed to ~~an antibody that specifically binds Hsp70B'~~ the antibody of claim 24, wherein ~~a specific interaction~~ binding between a protein in or on the cell or a protein extracted from the cell and the antibody indicates that the cell has been exposed to a stressful environment or a stressful substance.

33-34. (Canceled).

35. (Original) The kit of claim 26, wherein the antibody is a monoclonal antibody.

36. (Previously Presented) The kit of claim 26, further comprising instructions for use.

37. (Previously Presented) The kit of claim 27, further comprising instructions for use.

38. (Previously Presented) The kit of claim 27, wherein the antibody is a monoclonal antibody.

39. (Previously Presented) The kit of claim 36, wherein the antibody is a monoclonal antibody.

40. (Previously Presented) The kit of claim 37, wherein the antibody is a monoclonal antibody.

41. (Canceled).

42. (Currently Amended) The method of claim 30, wherein the carrier is [[KLH]]
keyhole limpet hemocyanin.

43-44. (Canceled).

45. (Previously Presented) The method of claim 30, wherein the antibody is a monoclonal antibody.

46. (Canceled).

47. (Previously Presented) The method of claim 42, wherein the antibody is a monoclonal antibody.

48. (Canceled).

49. (Previously Presented) The method of claim 32, wherein the antibody is a monoclonal antibody.

50. (Previously Presented) The method of claim 32, wherein the antibody has a relative titre index greater than one.

51-54 (Canceled).

55. (New) The method of claim 28, further comprising collecting blood from the animal.

56. (New) The method of claim 55, further comprising purifying the antibody by immunoaffinity.